

MWIK
25 Apr 62
JWC

24 April 1962

MEMORANDUM FOR: Chief, Technical Plans & Development Staff

THROUGH: Acting Chief, Technical Development Branch

SUBJECT: Trip Report, Boston and New York, 16 and 17 April 1962

STATINTL 1. The purpose of the trip to Boston was to discuss equipment procurement with the [] and inspect the computer peripheral equipment available from the [] At New York, [] presented a new concept on the binary dot reader.

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STATINTL a. At [] and I discussed the procurement of two type 829C comparators with []

STATINTL [] The comparators should fill TID/TAB requirements with several minor improvements. The recommended changes consist of changing the magnification from the proposed $7\frac{1}{2}x$ to $5x$ and $10x$, providing a rheostat for control of the lamp intensity, and providing a spare viewing screen. A letter stating the price adjustment for these features was requested. The cost would be approximately [] per instrument. When a viewing screen becomes dirty or damaged, it can be refinished for approximately []. In addition, we requested that [] increase the rotation capability as much as possible. At present, they guarantee $\pm 2^\circ$, but feel they can increase this to at least $\pm 4^\circ$. There would be no charge for this.

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STATINTL b. Also requested was information and rough costs on a cathod ray tube display comparator with electronic readout similar to the unit displayed at the last Photogrammetric Convention. TID/TAB has a specific comparator requirement that [] system may fill. Price information^{was} also requested for a new reticle for the 620 [] Comparator now in TID/TAB. [] furnished us a sample of a reticle with a 5 micron line weight to try in the 621.

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STATINTL 2. At [], we reviewed their line of equipment for potential use with the Univac 490 and other data reduction gear. Of particular interest was their TTR 200 typewriter which functions as a transmitter/receiver for on or off line use with computers. The TTR 200 is basically a IBM selectric typewriter modified for remote use. All circuitry added to it by [] is modular in nature and easily removed for servicing or replacement. Many optional features are available to meet specific requirements of different pieces of equipment. Of

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particular interest is their technique to reduce Radio Frequency Interference for low noise security installations. I now have a complete listing of [] products and their current price list. In general, the company has an advanced line of products and should be considered for future use.

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3. At [] a new concept in the binary dot reader was presented to [] and me. The new technique compares the dot position with the over-all base fog by a two photocell comparison, and would read the dot positions serially. Previous proposals used a bank of photocells and read the dot positions in parallel as absolute values rather than an individual comparison with the base fog condition. A feasibility breadboard was made up and several samples of actual material were previously furnished. On even the worst samples, detection was positive with excellent repeatability. At present, I have the breadboard here, and have displayed it to interested parties. The new technique has considerable merit over the previous techniques presented and should be considered further if a semi-automatic binary clock reader is in order. To date, we do not have a proposal for the new concept, but [] have done most of the work on one and will submit it on request.

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4. In addition, [] and me an equipment-oriented briefing on the "A" program, in response to TID requirements.

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